



Distributed Resource Plan

Data and Data Sharing

April 2015



**Silver Spring Networks
is the industry's leading provider of
networking platforms
for mission critical infrastructure**

***We have been making the internet-of-things a reality
for mission critical infrastructure***

The Leader In Critical Infrastructure Networks

- A decade of innovation and global success
- Volume leader with more than 23M homes and businesses networked
- Proven multi-application network for energy and smart city applications
- Broadest ecosystem with 125+ partners
- 189 Patents granted, 169 pending

- Smart grid product of the year - **Gen4**
- Smart grid product of the year - **SilverLink**
- American Tech award – **Street lights**

TechAmerica
FOUNDATION

Bloomberg
NEW ENERGY FINANCE

2011 BAY AREA
MOST ADMIRABLE
CEO
AWARDS

PRNews
CSR Awards
Corporate Social Responsibility



Global Cleantech™
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ENTREPRENEURS
FOUNDATION

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HERO
2011 AWARDS

technology
review
Published by MIT

 cleantech
GROUP LLC

Silver Spring
NETWORKS

Global Customer Success



100% Focus on Creating Value for Our Clients

Largest Ecosystem of 125+ Partners

Software



Advanced Metering



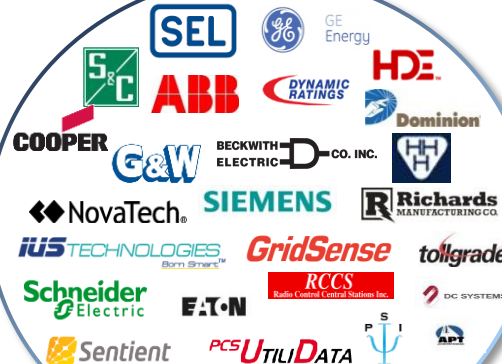
Lighting & Control



Demand-side Management



Distribution Automation



Lighting Deployment



One Network, No Compromises

Utility Back-office Systems

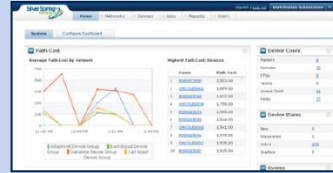
Third Party Data & Applications

Silver Spring Message Bus

Silver Spring Applications



UtilityIQ
Unified Software



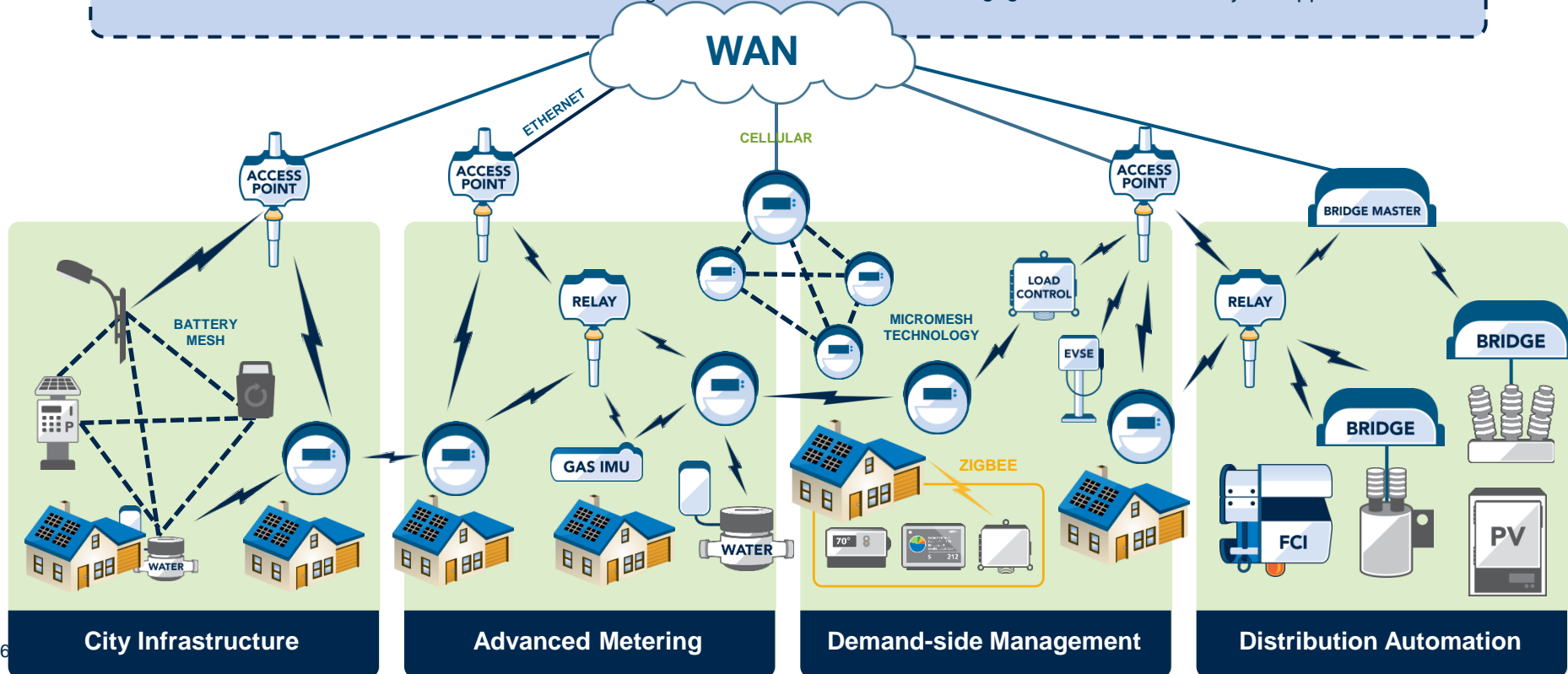
GridScope
Unified Management



CustomerIQ
Customer Engagement



SilverLink
Analytics Applications



Increasing Distributed Generation

Key Challenges

- Developing public policy and basic interconnection standards
- Imperfect information and principle/agent issues for grid analysis & operation
- Ensure reliability and energy balance as DG penetration is dramatically increased
- Move beyond autonomous operation of smart inverters to direct grid side management

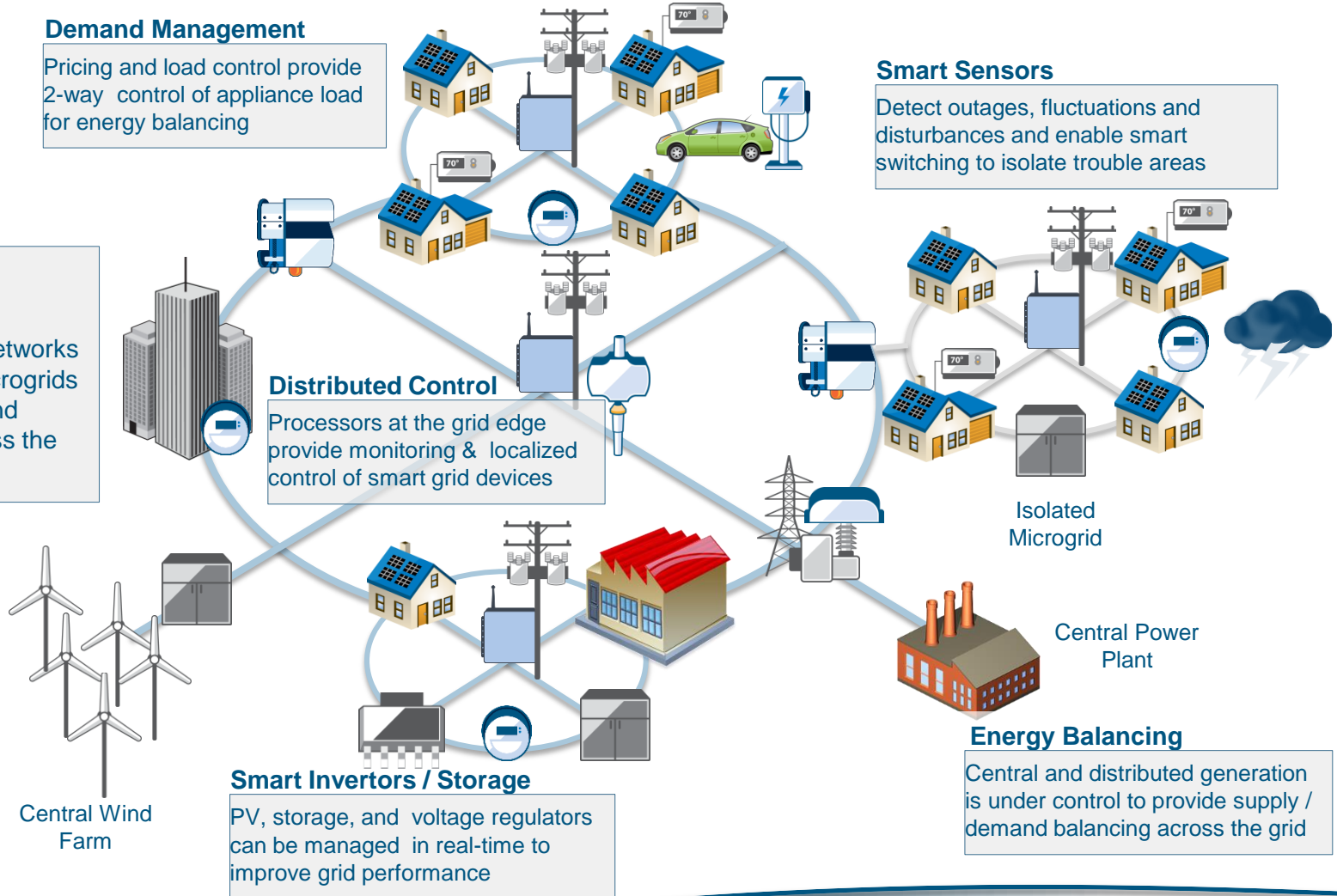
Distribution System Operator

A single operator of the electric grid is required

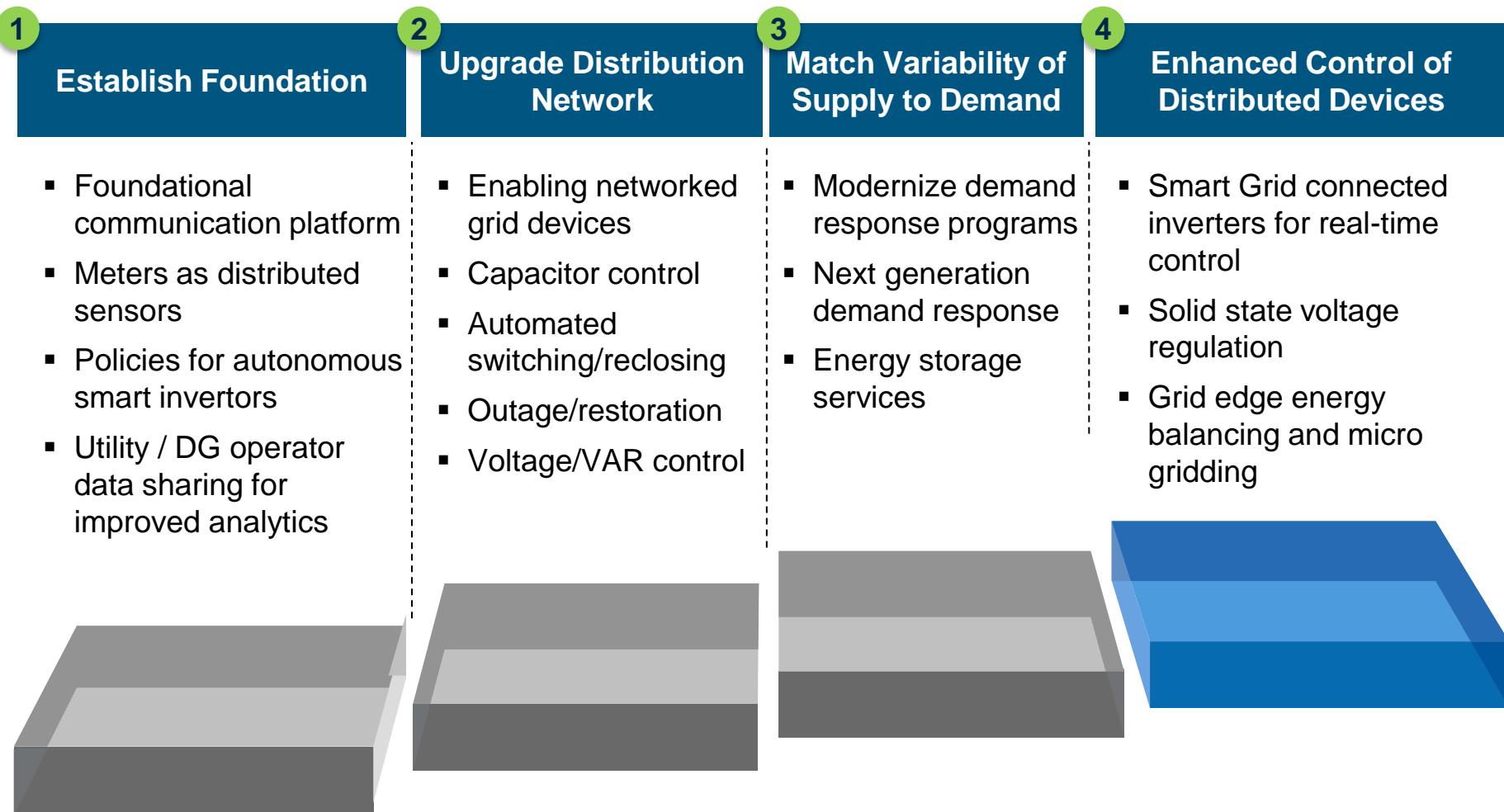


Integrated Grid Management

Vision for interconnected microgrids



A layered approach by distribution system operators will enable deep penetration of distributed generation



Data/Device Integration Strategies

	Step 1	Step 2	Step 3
	Grid assessment & autonomous operations	Data sharing for improved analytics	Integrated devices for grid management
Distribution System Operators (Utilities)	Deploy smart meters and smart sensors to assess local DG impact analysis	Make smart meter data accessible to DG providers for payback analysis	Enable deep penetration of grid connected generation assets
DG Providers	Adopt smart invertors capable of autonomous operation based on adopted policy	Make inverter generation data available to DSOs for improved local DG impact analysis	Enable direct DSO control of invertors as grid connected generation assets

Thank You!



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